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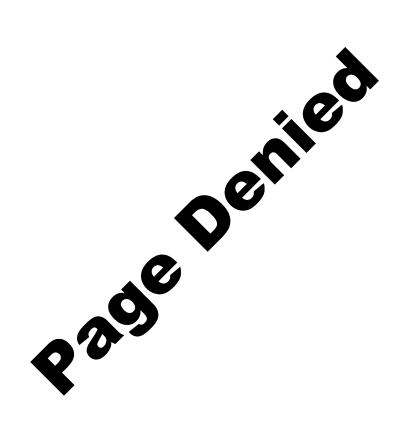
imagery analysis report

## The Severomorsk Explosion and the Soviet Resupply Effort (S)



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meters east-southeast of the SAM/cruise missile

storage area and approximately 600 meters north

of the SAM component storage area. (S/WN)

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included SA-N-1, SA-N-3, SA-N-6, and SA-N-7 SAMs and SS-N-3, SS-N-12, SS-N-19, and SS-N-22

cruise missiles. The first explosion was likely fol-

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9. Analysis that of effort began with involved the renthe relocation caystems. This efforts are the Table 2.	vage, and on Operations s of the first postexplosion imagery, showed that the initial cleanup hin a few days of the explosion and noval of debris from roadways and of some of the salvageable missile fort lasted until the end of May. In	trucks, cranes, and perso and the relocation of the missiles to the SLBM as damaged buildings were of the main assembly/ch gun, as had an inspection the explosion. Table 2 sh reconstruction activity. (9)	ding began. Numerous onnel were in the facility, remainder of salvageable rea had begun. Severely razed, and reconstruction teckout building had ben of missiles that survived tows a chronology of the S/WN)	25X1
Naval Mis	SAM/Cruise Missile	SAM Component	Other Areas	
	Storage Area  Small component storage bunker razed, razing of smaller checkout building begun.	Razing of assembly/ checkout building begun, reconstruction of support building begun.		25X1
	Earth removed from main checkout bunker.	Assembly/checkout building razed, support building rebuilt.		
	Main checkout bunker razed, area cleared of debris.		Two Quonset-type buildings razed in torpedo storage area.	
	Arch-roofed sections			

This table is classified SECRET/WNINTEL.

delivered, indicating that main checkout bunker was to be rebuilt.

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10. The reconstruction of the main assembly/ checkout building (Figure 7) in the SAM/cruise missile storage area was probably made a high priority project so that missiles that survived the explosion could be checked out at the facility prior to being transferred to combatants. Without this building, which houses the electronic equipment required in the missile checkout process, the major step in the provision of fully serviced missiles could not be accomplished. In early June, all the overhead supports and the sidewalls of the high-bay section of the building were removed. The highbay section, which supported a gantry crane, was completely rebuilt, probably because the overhead and the sidewall supports were too weak to support the overhead crane. By the sidewalls and a large section of the roof had been replaced. The building was externally complete by (S/WN)

11. The Soviet salvage efforts also included the inspection of the SS-N-19 missile canisters. Even though they were closer to the blast, the newer-design, metal SS-N-19 canisters stored near the lake survived the explosion better than the older, wooden SS-N-3/-12 crates, which were either crushed or burned in the explosion. No damage to the SS-N-19 canisters was discernible on many of the SS-N-19 canisters imagery. On had been opened and were being inspected (Figure 8). By 30-40 of the 60-65 SS-N-19 canisters had been moved from the facility to an area just north of Severomorsk Naval Missile Loading Facility Okolnaya the canisters or possibly the missiles inside them were damaged and/or no longer functional. (S/WN)

12. By the end of August, the facility had significantly recovered from the explosion. Though cleanup and salvage operations were still in progress, the facility had a clean appearance and was operational. The buildings severely damaged by the explosion had been either razed or rebuilt or were being reconstructed. (S/WN)

#### Preparations for Resupply

13. Before the main resupply effort, several types of missile systems, which were at the Severomorsk Missile Transfer Point were transferred to the Missile Storage Facility. On there were 99 SA-N-1 canisters (54 probably empty), 64 SA-N-3 canisters (21 probably empty), 117 SA-N-6 canisters (projected for Kirov-class nuclear-powered guided missile cruiser [CGN] unit 2), four SS-N-2 crates, seven SS-N-7/-9 crates, and 15 SS-N-3/-12 crates (probably empty) at the Missile Transfer Point (Figure 9). Immediately following the explosion, the Soviets began transferring these missile systems to Severomorsk Missile Storage Facility. (S/WN)

14. The first missile system removed from the Missile Transfer Point was the SA-N-6 SAM. By

110 of the 117 SA-N-6 canisters that were in the Missile Transfer Point before the explosion had been moved to the Missile Storage Facility. These missiles were probably for the second unit of the Kirov-class CGN, which arrived at Severomorsk in early September, and were not replacements for destroyed missiles. (S/WN)

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				0.574
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15. By app	roximately 54 SA-N-1 and	SA-N-3 canisters at the	Transfer Point had been	25X
	re removed from the Mis- cause no increase in the	moved to the Missile Stor -12 crates at the Transfer	rage Facility. The SS-N-3/ Point were repositioned	
mber of SA-N-1 or	SA-N-3 systems was ob-	next to the rail line; thus,	they were probably emp-	
ved at the Missile Sto	orage Facility, these canis-	ty crates also slated for i	return to the production	
were probably emp	oty and were probably re-	plant. The SS-N-2 crates the Missile Transfer Poir	were not removed from to (S/WN)	25X
the rema	on plant. Between ining 45 SA-N-1 and 43	are impone transier full	··· (0) ****)	25X1
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#### **IMAGERY ANALYST'S COMMENTS**

- 20. Although imagery to date indicates that the storage and handling facilities at Severomorsk will likely be completely restored within a year of the explosion, the explosion has other significant longer-term ramifications. In order for the Soviets to recover completely, they will have to replace those missile systems lost in the explosion, restock rear depot storage, and increase production of missile systems projected for newly deployed units. Satisfying these requirements should have little effect on other fleets because most of the newer missile systems are utilized on vessels deployed only in the Northern Fleet. Unless increased missile production can be rapidly accomplished, the Soviets will have shortfalls in the number and class of missiles intended for and required by their expanding Northern Fleet. Until substantial resupply of Severomorsk and its rear depots occurs, the operational capabilities of this fleet will be reduced. (S/WN)
- 21. By early September 1984, most of the damaged facilities had been rebuilt. The cleanup and salvage operations revealed two important facts: the early cleanup efforts and the lack of decontamination equipment indicated that no nuclear material was involved in the explosion; the speed of reconstruction and resupply at Severomorsk demonstrated the Soviet intent to return the facility to complete operational status. Continued monitoring of Severomorsk will provide considerable insight into the Soviets ability to return a facility to its once preeminent status. (S/WN)
- 22. Resupply, not cleanup, has been the major problem. Restocking the munitions lost has been restricted to older systems readily available at rear depots, including SS-N-3/-12s, SA-N-1s, and SA-N-3s. Clearly, the production rate will largely determine the resupply rate, especially for newer missile systems such as the SS-N-22 and SS-N-19 which are not stockpiled in rear depots. (S/WN)
- 23. The loss of the newer and more advanced missile systems creates an especially undesirable situation in the Northern Fleet, where

newer missile systems are being required in increasing numbers to complement the additional surface ships and submarines produced. The clearly intended deployment of new combatants to the Northern Fleet further complicates the resupply of Severomorsk because these combatants require the newer missile systems. For example, the SS-N-22 missile system was designed for the Sovremenny-class guided missile destroyer (DDG). Three of these DDGs are currently operational in the Northern Fleet: one is conducting at-sea trials in the Baltic, and two are fitting out. Additionally, the loss of 40 SS-N-19 cruise missiles will severely degrade the Northern Fleet's operations and could strain attempted increases in the Soviet Union's missile production facilities. The SS-N-19 missile system is the primary antiship weapon carried aboard the Kirov-class nuclear-powered guided missile cruiser and the Oscar-class nuclearpowered cruise missile submarine. Older missile systems such as the SA-N-1 and the SA-N-3 were already in limited production prior to explosion. Increases in the production of these older missile systems may not be possible or easily achieved due to the limited availability of system components. The older systems are, however, in abundant supply in rear depot storage. For example, approximately 4,000 SA-N-3 canisters are stockpiled throughout the Soviet Union. (S/WN)

the present time, crew training on missile-
equipped surface ships and submarines has been
limited. Furthermore,
initied. Farthermore,
The long-range
ramifications of the explosion may even include
the acceleration of production and the introduc-
tion of newly designed missile systems to replace
tion of newly designed imagine systems to replace
older systems currently in limited production.

#### REFERENCES

# All applicable imagery acquired through was used in the preparation of this report. (S/WN) DOCUMENTS 1. CIA. SC-02384, Impact of Damage at Severomorsk Naval Missile Storage Facility (U), 11 Oct 84 (SECRET) 2. NPIC. Z-14071/84, IAR-0033/84, Procedural Changes at Soviet Naval Storage Facilities (S), Aug 84 (SECRET) \*Extracted information is classified SECRET Comments and queries regarding this report are welcome. They may be directed to Soviet Air Navy and Nuclear Division, Imagery Exploitation Group, NPIC, at

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